

**WHAT IS CLAIMED IS:**

1           1.    A method of reacquisition in a wireless  
2           communication system comprising:

3           obtaining a metric indicating of signal conditions;

4           comparing the metric to a first predetermined threshold;

5           attempting connection with the synchronization channel if  
6           the metric meets or exceeds the first predetermined threshold;  
7           and

8           performing reacquisition if the metric does not meet the  
9           first predetermined threshold.

1           2.    The method of Claim 1, further comprising comparing  
2           the metric to a second predetermined threshold and attempting  
3           narrow reacquisition if the metric meets or exceed the second  
4           predetermined threshold.

1           3.    The method of Claim 1, wherein the metric indicates  
2           signal quality.

1           4.    The method of Claim 1, wherein the metric is receive  
2           signal strength indicator (RSSI).

1           5.    The method of Claim 1, wherein the metric is bit  
2           error rate.

1           6.    The method of Claim 1, wherein the metric is  $E_c/I_o$ .

1           7.    The method of Claim 1, wherein the metric is finger  
2 correlation.

1           8.    A method of enhancing reacquisition in a wireless  
2 communication system comprising:

3               determining signal strength;

4               connecting to the synchronization channel if the signal  
5 strength meets or exceeds a first threshold;

6               performing narrow reacquisition if the signal strength is  
7 between the first threshold and a second threshold; and

8               performing full reacquisition if the signal strength is  
9 at or below the second threshold.

1           9.    The method of Claim 8, further comprising creating a  
2 history log of reacquisition performance.

1           10.   The method of Claim 9, further comprising  
2 determining the first threshold and the second threshold using  
3 historical data in the history log.

1           11.   The method of Claim 8, wherein the first threshold  
2 and the second threshold are predetermined.

1           12. The method of Claim 8, wherein the signal strength  
2 is determined using a signal quality metric.

1           13. The method of Claim 8, wherein the signal strength  
2 is determined by a mobile station.

1           14. The method of Claim 8, wherein the signal strength  
2 is determined upon call release.

1           15. The method of Claim 8, wherein the signal strength  
2 is determined following call release.

1           16. A mobile station for use in a wireless communication  
2 system comprising:

3           a signal quality indicator which determines signal  
4 quality; and

5           a reacquisition logic circuit which determines the  
6 appropriate reacquisition procedure based on the signal  
7 quality.

1           17. The mobile station of Claim 16, wherein the  
2 reacquisition logic circuit connects the mobile station to a  
3 synchronization channel if the signal quality exceeds a first  
4 threshold.

1           18. The mobile station of Claim 16, wherein the  
2 reacquisition logic circuit directs the mobile station to

3 reacquire a base station if the signal quality falls below a  
4 first threshold.

1 19. The mobile station of Claim 18, wherein the  
2 reacquisition logic circuit directs the mobile station to  
3 perform a narrow reacquisition if the signal quality exceeds a  
4 second threshold.

1 20. The mobile station of Claim 16, wherein the signal  
2 quality indicator determines the signal quality using a  
3 metric.

1 21. The mobile station of Claim 20, wherein the metric  
2 is RSSI.

1 22. The mobile station of Claim 20, wherein the metric  
2 is finger correlation.